

Ornithology C - Rickards Invitational Ornithology - Rickards Invitational Div. C - 12-05-2020

Welcome to Rickards Ornithology!**Section 1 - Warmup :)**

For questions 1-20, identify the bird depicted in the image. You may give either the common or scientific name, whichever is easier for you.

1. (3.00 pts)**2. (3.00 pts)**



3. (3.00 pts)



4. (3.00 pts)



5. (3.00 pts)



6. (3.00 pts)



7. (3.00 pts)



8. (3.00 pts)



9. (3.00 pts)



10. (3.00 pts)



11. (3.00 pts)



12. (3.00 pts)



13. (3.00 pts)



14. (3.00 pts)



15. (3.00 pts)



16. (3.00 pts)



17. (3.00 pts)



18. (3.00 pts)



19. (3.00 pts)



20. (3.00 pts)



Section 2

Questions 21-28 refer to the bird species depicted in the following image:



21. (3.00 pts) What is the common name of this bird species?

22. (2.00 pts) What pigment is responsible for the pink color of this bird?

23. (2.00 pts) What is the function of its distinctive bill shape?

24. (2.00 pts) This species is described as being "gregarious." Briefly define what gregarious means.

[Large empty rectangular box for writing]

25. (3.00 pts)

This species has been used as an indicator for the restoration of the Everglades ecosystem. State one criteria that make a species an appropriate choice for use as an indicator species.

[Large empty rectangular box for writing]

26. (1.00 pts) True or False: This species lays clutches of translucent white eggs.

- True False

27. (1.00 pts) True or False: This species is currently classified as a species of Least Concern of becoming extinct.

- True False

28. (1.00 pts) True or False: This species exhibits sexual dimorphism.

- True False

Section 3

Questions 29-35 refer to the species depicted in the following image:



29. (3.00 pts) What is the common name of this bird species?

30. (2.00 pts) The adjective "rufous" is often used in descriptions of one group of this species. What does the word "rufous" mean?

31. (2.00 pts) Which group (subspecies) of this species has rufous sides?

32. (2.00 pts) What are the two main components of this species' diet?

33. (4.00 pts)

Plumage characteristics are correlated with rank hierarchy in this species. This is in accordance with the _____ hypothesis, which states that plumage variation evolved to indicate differences in an individual's ability to engage in _____ behavior.

34. (1.00 pts) True or False: Song rates of this species are commonly observed to increase when females are fertile.

- True False

35. (1.00 pts) True or False: This species usually builds its nest on the ground.

- True False

Section 4

Questions 36-42 refer to the species depicted in the following image:



36. (3.00 pts) Give the scientific name of this species.

37. (2.00 pts) This species prefers to nest in "mesic" habitats. Briefly define what a mesic habitat is.

38. (2.00 pts)

A recent study on the nesting of this bird highlighted the shortcomings of nest density estimations caused by incomplete detectability. Give one reason that may make bird nests difficult to detect despite being present.

39. (2.00 pts) The aforementioned study used the "rope-drag" method to locate nests. Briefly describe what this method entails.

40. (4.00 pts)

There exists a "hybrid zone" between this species and a closely related sibling species. Briefly define what a hybrid zone is and give one way such a region may form.

41. (1.00 pts) True or False: This species is the state bird of seven states.

- True False

42. (1.00 pts) True or False: This species is monogamous.

- True False

Section 5

Questions 43-48 refer to the species depicted in the following image:

**43. (3.00 pts)** Give the common name of this species.

44. (2.00 pts) This species often nests in "riparian zones." Briefly define what a riparian zone is.

45. (2.00 pts) Which of the birds from Section 1 would the call of this species be most similar to?

46. (2.00 pts) The thermogenic capacity of this species has been observed to vary seasonally, in part due to Zugunruhe. Briefly define what Zugunruhe is.

47. (2.00 pts) Cowbirds will often lay their own eggs in the nests of this species. What is the term for this type of behavior?

48. (4.00 pts)

The aforementioned behavior has a large negative effect on the population of this species, which may be modeled using source-sink dynamics. Briefly describe the theoretical basis of source-sink dynamical modeling.

Section 6

Questions 49-53 refer to the species depicted in the following image:



49. (3.00 pts) Give the scientific name of this species.

50. (2.00 pts)

The cowbirds that lay their eggs in the bird from the last section also lays its eggs in this bird species (those guys are jerks, I guess). However, although this species and the previous section's species are both capable of identifying cowbird eggs and kicking them out of their nest, this species does not do it nearly as frequently (~60% compared to ~90% of the time). Suggest a reason for this observation.

51. (4.00 pts)

This species is pretty easy to attract into a nest box, if you like them. In fact, studies have shown that even placing chemical cues from common nest predators onto nest boxes will not cause them to avoid those boxes. Name two specific nest predator species of this bird.

52. (2.00 pts) This species is monogamous, yet it is known to mate with individuals outside its monogamous mating pair. What is the term for this behavior?

53. (4.00 pts)

Individuals of this species, after fledging their own young from a nesting box, have been observed to continue feeding nestlings occupying that same box, even if such nestlings were of a different species. Propose a reasonable explanation for this reproductive error.

Section 7 - Bird Calls

For questions 54-58, identify the bird species making the call in the recording below. You may give either the common or scientific name, whichever is easier.

2020 Rickards Invitational - Ornithology Calls



54. (7.00 pts) Give the common or scientific name of the species in Call 1 of the video.

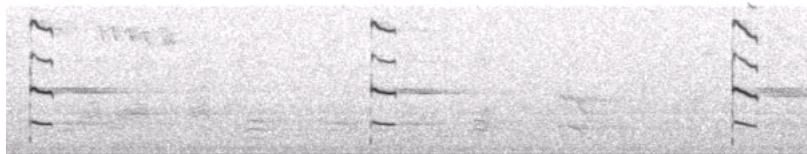
55. (7.00 pts) Give the common or scientific name of the species in Call 2 of the video.

56. (7.00 pts) Give the common or scientific name of the species in Call 3 of the video.

57. (7.00 pts) Give the common or scientific name of the species in Call 4 of the video.

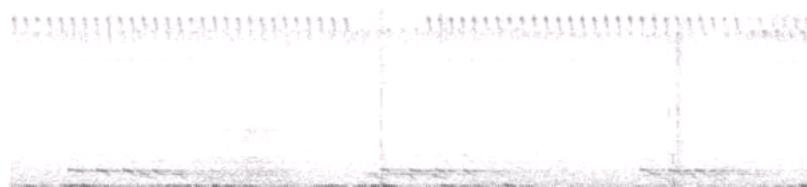
58. (7.00 pts) Give the common or scientific name of the species in Call 5 of the video.

59. (3.00 pts) Which of the previous calls does the following spectrogram depict:



- A) Call 1
- B) Call 2
- C) Call 3
- D) Call 4
- E) Call 5

60. (3.00 pts) Which of the previous calls does the following spectrogram depict:



- A) Call 1

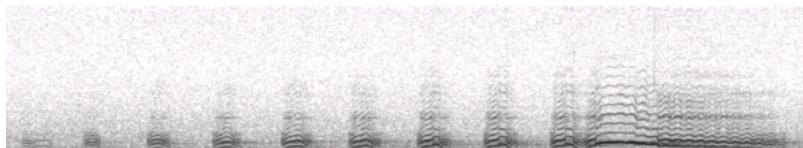
- B) Call 2
- C) Call 3
- D) Call 4
- E) Call 5

61. (3.00 pts) Which of the previous calls does the following spectrogram depict:



- A) Call 1
- B) Call 2
- C) Call 3
- D) Call 4
- E) Call 5

62. (3.00 pts) Which of the previous calls does the following spectrogram depict:



- A) Call 1
- B) Call 2
- C) Call 3
- D) Call 4
- E) Call 5

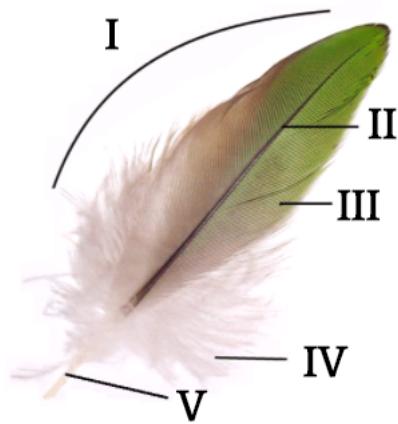
63. (3.00 pts) Which of the previous calls does the following spectrogram depict:



- A) Call 1
- B) Call 2
- C) Call 3
- D) Call 4
- E) Call 5

Section 8 - Feathers

For questions 64-68, give the name of the labeled region in the following diagram:



64. (2.00 pts) What is the anatomical term for the part of the feather labeled "I"?

65. (2.00 pts) What is the anatomical term for the part of the feather labeled "II"?

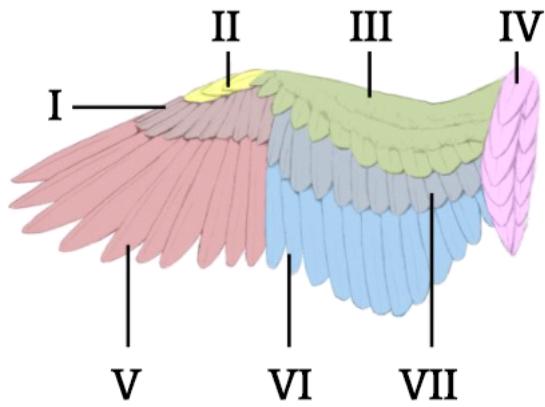
66. (2.00 pts) What is the anatomical term for the part of the feather labeled "III"?

67. (2.00 pts) What is the anatomical term for the part of the feather labeled "IV"?

68. (2.00 pts) What is the anatomical term for the part of the feather labeled "V"?

Section 9 - Wings

Questions XX-XX refer to the following feather diagram:



Use the following word bank in your answers:

- Primaries
- Secondaries
- Primary coverts
- Secondary coverts
- Marginal coverts
- Alula
- Scapulars
- Carpal edge

69. (2.00 pts) What is the term for the dull red region labeled "I"?

70. (2.00 pts) What is the term for the yellow region labeled "II"?

71. (2.00 pts) What is the term for the green region labeled "III"?

72. (2.00 pts) What is the term for the pink region labeled "IV"?

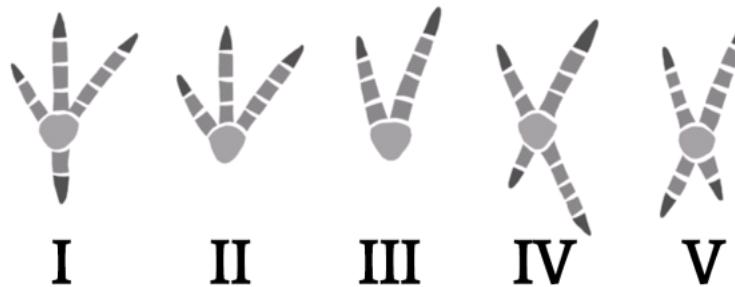
73. (2.00 pts) What is the term for the light red region labeled "V"?

74. (2.00 pts) What is the term for the light blue region labeled "VI"?

75. (2.00 pts) What is the term for the dull blue region labeled "VII"?

Section 10 - Digits

Questions 76-80 refer to the following diagram of bird digital arrangements:



76. (2.00 pts) What is the term for the digital arrangement labeled "I"?

77. (2.00 pts) What is the term for the digital arrangement labeled "II"?

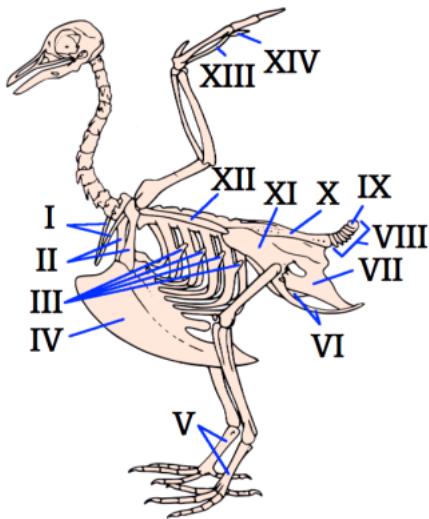
78. (2.00 pts) What is the term for the digital arrangement labeled "III"?

79. (2.00 pts) What is the term for the digital arrangement labeled "IV"?

80. (2.00 pts) What is the term for the digital arrangement labeled "V"?

Section 11 - Skeleton

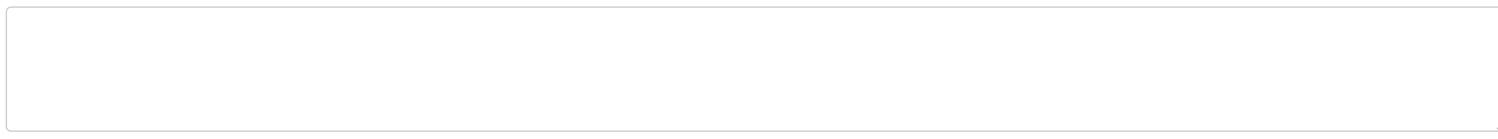
Questions 81-94 refer to the following bird skeleton diagram:



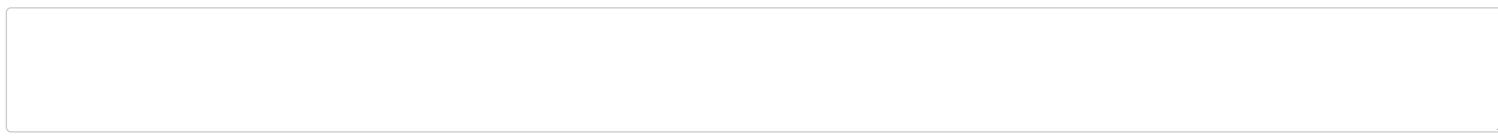
81. (1.50 pts) What is the term for the region in the diagram labeled "I"?



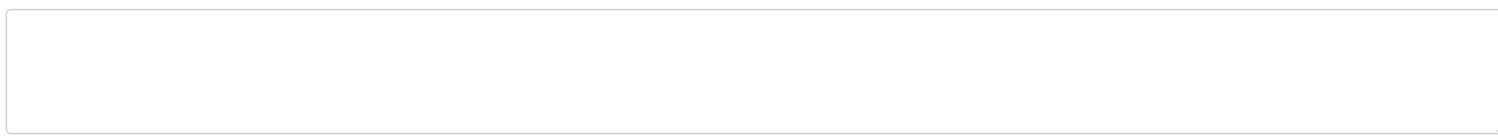
82. (1.50 pts) What is the term for the region in the diagram labeled "II"?



83. (1.50 pts) What is the term for the region in the diagram labeled "III"?



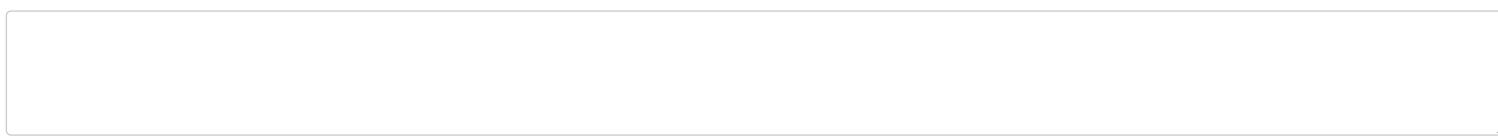
84. (1.50 pts) What is the term for the region in the diagram labeled "IV"?



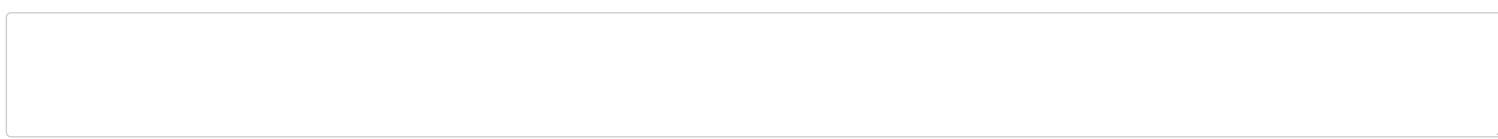
85. (1.50 pts) What is the term for the region in the diagram labeled "V"?



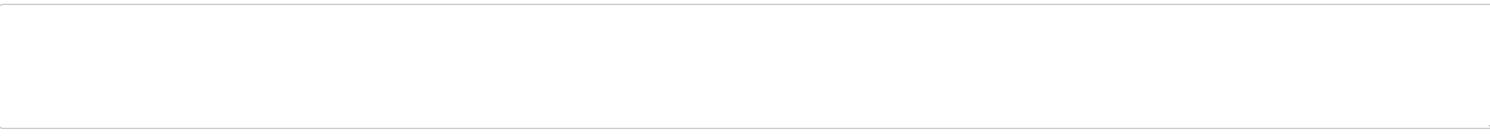
86. (1.50 pts) What is the term for the region in the diagram labeled "VI"?



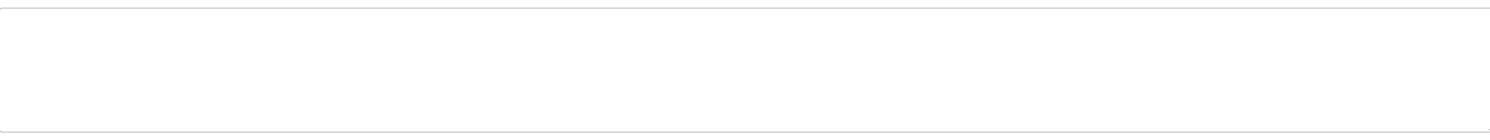
87. (1.50 pts) What is the term for the region in the diagram labeled "VII"?



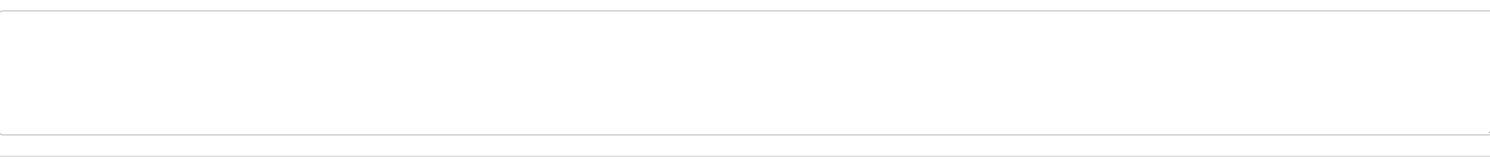
88. (1.50 pts) What is the term for the region in the diagram labeled "VIII"?



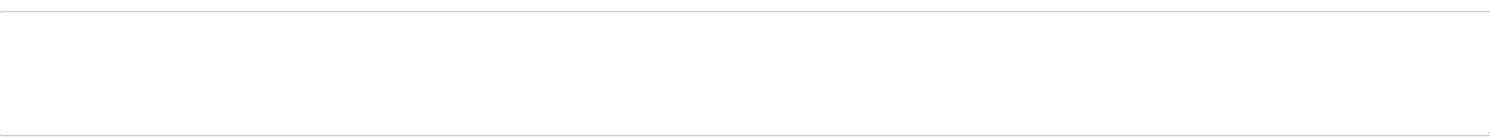
89. (1.50 pts) What is the term for the region in the diagram labeled "IX"?



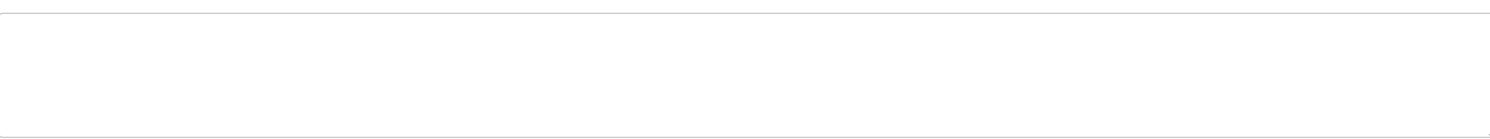
90. (1.50 pts) What is the term for the region in the diagram labeled "X"?



91. (1.50 pts) What is the term for the region in the diagram labeled "XI"?



92. (1.50 pts) What is the term for the region in the diagram labeled "XII"?



93. (1.50 pts) What is the term for the region in the diagram labeled "XIII"?



94. (1.50 pts) What is the term for the region in the diagram labeled "XIV"?

Section 12 - Legislation

Questions 95-99 relate to bird law in the United States.

95. (2.00 pts) What act, passed in 1913, ended the use of migratory bird feathers for women's fashion?

96. (2.00 pts) The act from the previous question was later replaced by what other act in 1918?

97. (2.00 pts) The extinction of the Carolina parakeet, as well as overhunting of the snowy egret, served as a catalyst for what 1900 act?

98. (2.00 pts)

What act, passed in 1973 by President Nixon, was called the "the most comprehensive legislation for the preservation of endangered species enacted by any nation" by the Supreme Court?

99. (2.00 pts) In what year was the Bald Eagle Protection Act enacted?

Section 13 - What is your favorite bird?

This is worth 10 points, because the last time I made it worth 1 point nobody answered it >:(

100. (10.00 pts) Tell me you and your partner's favorite bird(s).

END OF EXAM